AMENDMENT

Please amend the specification as follows:

Please replace the paragraph on page 8, lines 11-13 with:

C1 Figures 1a and 1b show aligned amino acid sequences for the *C. elegans* C54D2.5 α_1 calcium channel subunit and initially identified portions of the calcium channel subunits of the invention.

Please amend the claims as follows:

Please cancel claims 16-27.

Please replace the present claims 28-33 with the following claims 28-33:

28. (Amended) A DNA molecule which comprises an expression system for the production of a calcium ion channel α_1 subunit protein which expression system comprises

a nucleotide sequence encoding a functional T-type, low voltage activated calcium channel α_1 subunit or the complement to said encoding nucleotide sequence, wherein said encoding nucleotide sequence comprises

(a) a nucleotide sequence encoding the amino acid sequence encoded by SEQ. ID. NO: 18; or

(b) the complement of a nucleotide sequence that hybridizes under conditions of medium hybridization stringency to the nucleotide sequence of (a).

C2

29. (Amended) The DNA molecule of claim 28 wherein said encoding nucleotide sequence encodes the amino acid sequence encoded by SEQ. ID. NO: 18.

30. (Amended) The DNA molecule of claim 29 wherein said encoding nucleotide sequence is that set forth in SEQ. ID. NO: 18.

31. (Amended) Recombinant host cells which are modified to contain the DNA molecule of any of claims 28-30.